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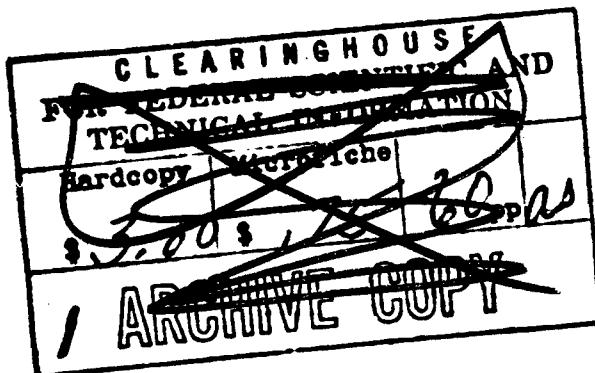
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**COMMUNITY REACTIONS TO
SONIC BOOMS IN THE OKLAHOMA CITY AREA**
VOLUME III. QUESTIONNAIRES
APPENDIX TO VOLUME II

PAUL N. BORSKY

NATIONAL OPINION RESEARCH CENTER

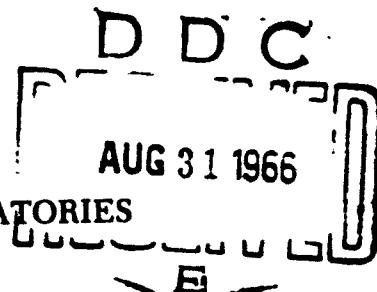


MARCH 1966

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PAUL N. BORSKY

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FOREWORD

This study was initiated and funded by the Office of Supersonic Transport Development, Federal Aviation Agency, Washington, D.C. 20553. The Biophysics Laboratory, Aerospace Medical Research Laboratories, Wright-Patterson Air Force Base, Ohio, served as technical monitor. The research was conducted under Contract AF 33(657)-11148 by the National Opinion Research Center, University of Chicago, 55 Fifth Avenue, New York, N.Y. 10003. Mr. Paul N. Borsky was the principal investigator for National Opinion Research Center. Dr. Charles W. Nixon of the Biodynamics and Bionics Division was the contract monitor for the Aerospace Medical Research Laboratories. The work was performed in support of Project No. 7231, "Biomechanics of Aerospace Operations," and Task No. 723103, "Biological Acoustics in Aerospace Environments." The research sponsored by this contract was started in April 1963 and completed in February 1965. This report is the appendix to AMRL-TR-65-37, Volume II, dated October 1965.

J. W. HEIM, PhD
Technical Director
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ABSTRACT

This appendix contains samples of questionnaires used during the interviews that took place from February to July 1964 in the Oklahoma City, Oklahoma, area. That area was repeatedly exposed to sonic booms generated to simulate overpressure levels that are expected for supersonic transport overflights. The schedule provided for eight sonic booms per day. During the 6-month period, almost 3,000 local residents were interviewed three times to determine the nature and extent of their reactions to the sonic booms.

QUESTIONNAIRE DESIGN

The interview was designed to embed the questions about sonic booms in general context of local living conditions to secure as unbiased a response possible about reactions to the booms. Respondents were told, "This is a community survey of how different people feel about living in different areas. attempts to record systematically the kinds of things people like and dislike about their environments and the kinds of individual and group actions taken to improve undesirable situations."

Sponsorship

At no time was the respondent advised that the study was being made for the government as part of the sonic boom evaluation. If asked about sponsorship, a respondent was told that the National Opinion Research Center of the University of Chicago was conducting the study as part of its regular urban studies. This was done to avoid possible bias in response. A person believing the study was sponsored by the government might have exaggerated his feelings in order to influence the government's decisions. Results indicate that this general approach was successful in over 90% of all interviews; only 8% voiced suspicion about the purposes or sponsorship of the survey.

Order of Questions

The questionnaire was divided into five sequences, as follows:

1. General questions about likes and dislikes and overall rating of the area.
2. Direct questions outlining a pattern of local behavior in response to a major annoyance or dislike.
3. General reaction to perceived noise disturbances and behavior patterns in response to them.
4. Direct questions on topical sonic booms, including knowledge, interferences, annoyance, feelings of importance and necessity, and projected feelings toward civilian jet booms.
5. Background information on the characteristics of the respondent.

Control Over Respondent Biases

As mentioned earlier, the public information program and the resulting news releases openly discussed the purposes of the study, suggested that local economic benefits would result from acceptance of the booms, stressed the daytime nature and 6-month duration of the booms and that NORC would study public reactions. To measure the extent to which the public actually became aware of these messages and to what extent this knowledge influenced reported reactions to the booms, special questions on these topics were incorporated in the personal interviews.

Face-to-Face and Telephone Questionnaires

In the first interview most of the respondents were seen face to face, with a smaller number contacted by telephone. During the second and third interviews, however, all respondents who had a telephone were contacted by phone. Those who had no telephone were visited in their homes. The telephone questionnaire was much shorter than the face-to-face questionnaire. In general, the telephone interview omitted the free-answer questions which required lengthy probing. The remaining questions included on the telephone questionnaire, however, were identical with questions on the face-to-face interview and followed a similar sequence.

Questionnaires used in these interviews were approved by the Bureau of the Budget.

NATIONAL OPINION RESEARCH CENTER
University of Chicago

First Interview (Face to Face)

ment No. _____

Date _____

Phone No. _____

Time Interview Began _____

or callback _____

Time Interview Ended _____

option of Respondent (Q. 29) _____

is _____

I'm from the opinion research center at the University of Chicago. We are a study about how people feel about living in different places and I'd like to some of your views.

The first question is: In general, how do you like living in this part of name of area)? Do you rate it as an excellent, good, fair, poor, or very poor place to live?

Excellent	10-1
Good.	2
Fair.	3
Poor.	4
Very poor	5
Don't know.	6
NORC use.	Y

Would you say you like many things, just a few things or hardly anything about living around here?

Many things	11-1
A few things.	2
Hardly anything	3
Don't know.	4
NORC use.	Y

And what are some of the things you like -- things that you feel are advantages, or that make this a good place to live? (Anything else?)

3. A. Now, very few places are entirely perfect. So I'd like you to tell me if there are many things, a few things or hardly anything you dislike about living around here?

Many things	13-1
A few things.	2
Hardly anything	3
Don't know.	4
NORC use.	Y

B. Would you tell me some of the things you don't like -- things you may feel are nuisances, irritations, or are unpleasant and bothersome conditions? (Anything else?)

14-

15-

16-

C. Have we overlooked anything that may recently have bothered or disturbed your everyday living -- even little annoyances that you just take for granted because nothing much can be done about them?

4. Are there any dangerous conditions affecting this area that sometimes concern you?

Yes	17-1*
No.	2
NORC use.	Y

*A. IF YES: What are they? (Anything else?)

5. Now of all the things you don't like (there must be some) -- things you may feel are nuisances, irritations, disturbances, or bothersome conditions, which one thing do you dislike the most?

Nothing disliked.	18-1*
Sonic booms, big booms.	2
Noise - airplane.	3
Noise - other	4
Danger - traffic, no sidewalks.	5
Danger - other conditions	6
Location poor, inconvenient to facilities, jobs	7
Transportation, roads, highways, buses inadequate	8
Schools - buildings, instruction, transportation inadequate	9
Community facilities - other inadequate	0
Social aspects, dislike people, unfriendly.	X
Zoning problems, mixed residence-business	19-1
Overcrowded, not enough privacy, space.	2
Taxes too high, earnings tax unfair	3
Economic problems, no jobs, prices too high	4
Government poor, corrupt, pressure for annexation	5
All other reasons	6
Don't know.	X*
NORC use.	Y

I: SOMETHING DISLIKED MENTIONED, ASK E-G ON THE NEXT PAGE

*IF NOTHING DISLIKED OR DON'T KNOW, ASK A

A. At any time in the past, was there ever anything around here that you felt was a public problem or a nuisance, an irritation, a disturbance, or a bothersome condition?

Yes	20-1**
No.	2
NORC use.	Y

**IF YES, ASK B - D

B. Did you ever feel like doing something about this? For example, did you ever feel like:

	B			C		
	Yes	No	NORC	Yes	No	NORC
1) Writing or telephoning an official about it?	21-1	2	3	4	5	Y
2) Visiting an official?	22-1	2	3	4	5	Y
3) Signing a petition?	23-1	2	3	4	5	Y
4) or helping to set up a citizens' committee to do something?	24-1	2	3	4	5	Y

ASK C AFTER FINISHING PART B, AND CIRCLE YES OR NO CODES ABOVE FOR EACH OF THE FOUR ITEMS.

C. Did you or anyone in your family ever actually do any of these things? (Which?)

D. And what did you think the chances were to do something about that situation -- very good, good, fair or poor?

Very good	25-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

IF SOMETHING DISLIKED MENTIONED IN Q. 5, ASK E - G

E. Have you yourself ever felt like doing something about this? For example, have you ever felt like:

	E			F		
	Yes	No	NORC	Yes	No	NORC
1) Writing or telephoning an official? . .	26-1	2	3	4	5	Y
2) Visiting an official?	27-1	2	3	4	5	Y
3) Signing a petition?	28-1	2	3	4	5	Y
4) or helping to set up a citizens' committee to do something?	29-1	2	3	4	5	Y

ASK F AFTER FINISHING PART E, AND CIRCLE YES OR NO CODES ABOVE FOR EACH OF THE FOUR ITEMS.

F. Did you or anyone in your family ever actually do any of these things? (Which?)

G. And what do you think the chances are to do something about this -- very good, good, fair or poor?

Very good	30-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

6. On the whole, would you rate this area as very noisy, fairly noisy, fairly quiet, or very quiet?

Very noisy.	31-1
Fairly noisy.	2
Fairly quiet.	3
Very quiet.	4
Don't know.	5
NORC use.	Y

7. And what are some of the different kinds of noises you sometimes hear around here? (Any others?)
 (Circle Code 1 for each of the noises listed below which are mentioned spontaneously. Then prompt for any of these noises not mentioned by asking, "Do you ever hear noise from. . .?")

	Cars or trucks going by?	Neighbors or children?	Sonic booms from lets?	Ordinary noise from airplanes?
Mention spontaneously.	32-1*	36-1*	40-1*	44-1*
Yes (prompted)	2*	2*	2*	2*
No, never hear	3	3	3	3
NORC use	4	4	4	4

*ASK A THROUGH F FOR EACH TYPE OF NOISE CODED 1 OR 2

A. How often do you hear the (kind of noise) --

Very often	32-5	36-5	40-5	44-5
Fairly often, or	6	6	0	6
Only occasionally?	7	7	7	7
Don't know.	8	8	8	8
NORC use	9	9	9	9

B. Would you say this noise is usually --

Extremely loud.	33-1	37-1	41-1	45-1
Fairly loud, or.	2	2	2	2
Not so loud?	3	3	3	3
Don't know.	4	4	4	4
NORC use	5	5	5	5

C. Would you say this noise could be reduced, or not?

Yes, could be reduced.	33-6	37-6	41-6	45-6
No, couldn't be.	7	7	7	7
Don't know.	8	8	8	8
NORC use	9	9	9	9

	<u>Cars or trucks going by?</u>	<u>Neighbors or children?</u>	<u>Sonic booms from jets?</u>	<u>Ordinary noise from airplanes?</u>
D. Does this noise bother or annoy you --				
Very much.	• • • • •	• • • • •	• • • • •	46-1**
Moderately	• • • • •	• • • • •	• • • • •	2**
Only a little, or	• • • • •	• • • • •	• • • • •	3**
Not at all?	• • • • •	• • • • •	• • • • •	4*
Don't know.	• • • • •	• • • • •	• • • • •	5
NORC use.	• • • • •	• • • • •	• • • • •	6

*IF NOT AT ALL, ASK E.

E. Was it ever unpleasant, or did it ever bother you at all in the past?

	34-1**	38-1**	42-7	46-7
Yes	• • • • •	• • • • •	• • • • •	• • • • •
No.	• • • • •	• • • • •	• • • • •	• • • • •
Don't know.	• • • • •	• • • • •	• • • • •	• • • • •
NORC use.	• • • • •	• • • • •	• • • • •	• • • • •

**IF 1, 2 or 3 CODED ON D, ASK F

F. How often does it bother you --

	35-1	39-1	43-1	47-1
Very often.	• • • • •	• • • • •	• • • • •	• • • • •
Fairly often, or.	• • • • •	• • • • •	• • • • •	• • • • •
Only occasionally.	• • • • •	• • • • •	• • • • •	• • • • •
Don't know.	• • • • •	• • • • •	• • • • •	• • • • •
NORC use.	• • • • •	• • • • •	• • • • •	• • • • •

SK Q. 8 ONLY IF RESPONDENT DOES NOT HEAR BOOMS (Q. 7, CODE 40-3)

As far as you know, have the jets recently caused any sonic booms while flying near here?

Yes	48-1*
No.	2**
NORC use.	Y

****IF NO, SKIP TO Q. 23**

***ASK Qs. 9-22 IF RESPONDENT HEARS BOOMS (Q. 7, CODES 40-1 or 2) OR KNOWS OF BOOMS (Q. 8, CODE 48-1)**

1. Have you heard or read anything about the recent sonic booms around here?

Yes	49-1*
No.	2
NORC use.	Y

***IF YES, ASK "A"**

A. Where did you hear about it? (Any place else?) Circle all codes mentioned spontaneously, then ask for each not mentioned: Did you hear anything about it from ____?

	YES <u>Spontaneous</u>	YES <u>Probed</u>	NO	NORC
Newspapers.	50-1	2	3	Y
TV.	51-1	2	3	Y
Radio	52-1	2	3	Y
Neighbors or friends. . .	53-1	2	3	Y
Other (<u>Specify</u>)	54-1	2	3	Y

10. A. Could you tell me what causes the jets to make a boom?

55-

B. (When you hear the boom) can you always tell it's from a jet, or do you sometimes wonder what the boom is?

Can tell.	56-1
Sometimes wonder. . .	2
Don't know.	3
NORC use.	Y

***C. IF "SOMETIMES WONDER": What do you think it might be?**

57-

D. Do you usually hear the booms about the same time each day or do they happen at different times each day?

Same time	58-1
Different times . . .	2
Don't know.	3
NORC use.	Y

11. Do you happen to know why the jets making booms fly around here? Yes 59-1*
No. 2
NORC use. Y

*A. IF YES: Why is that?

60-

12. A. Do you yourself feel it is absolutely necessary for the jets to make these booms around here, or not? Yes 61-1
No. 2
Don't know. 3
NORC use. Y

B. Why is that?

62-

63-

13. From what you've heard or read, do you think most other people around here feel it is absolutely necessary, or not? Necessary 64-1
Not necessary 2
Don't know. 3
NORC use. Y

14. The way things are now would you say the aviation officials responsible for the booms, care about the feelings and comfort of residents like yourself -- do you think they care very much, moderately, only a little, or don't they care at all?

Very much 65-1
Moderately. 2
A little. 3
Not at all. 4
Don't know. 5
NORC use. Y

15. Do you happen to know how long these booms are supposed to continue altogether? Yes 66-1*
No. 2
NORC use. Y

*A. IF YES: How long is that?

1 month or less . . . 67-1
2 months. 2
3 months. 3
4 months. 4
5 months. 5
6 months. 6
7 months or more. . . 7
Indefinitely. 8
NORC use. Y

*IF YES TO ANY ITEM ON Q. 16, ASK A & B BEFORE GOING ON TO NEXT ITEM

A. How often is that. B. And how annoyed does this make you feel.

only a or not
moderately little at all
annoyed annoyed annoyed? NORC

	<u>Yes</u>	<u>No</u>	<u>NORC</u>	very often	fairly or only often	occasionally?	DK	very annoyed	moderately annoyed	annoyed	annoyed? <u>NORC</u>	
Interfere with your radio or TV?	68-1*	2	3	4	5	6	7	8	9	0	X	Y
Startle or frighten anyone in your family?	69-1*	2	3	4	5	6	7	8	9	0	X	Y
Disturb your family's sleep?	70-1*	2	3	4	5	6	7	8	9	0	X	Y
Wake your house rattle or shake?	71-1*	2	3	4	5	6	7	8	9	0	X	Y
Interfere with your family's rest or relaxation?	72-1*	2	3	4	5	6	7	8	9	0	X	Y
Interfere with your conversation?	73-1*	2	3	4	5	6	7	8	9	0	X	Y
	74-			75-		76-	77-	78-	79-	80-1		

17. Have the booms ever hurt or damaged anything in your house?

*IF YES, ASK A & B

A. Just what did they do? (Probe for specific damage)
(Anything else?)

10-1

Cracked walls or plaster.	2
Cracked, broke windows.	2
Cracked, damaged structures	3
Broke tiles or fixed object	4
Broke, knocked down moveable objects.	5
Person injured.	6
Person fell-not injured	7
Person dropped something.	8
Other types of damage	9
Don't know.	0
NORC use.	Y

B. About when did that happen? (Circle as many as apply)

9-1*

1956 Air Show.	11-1
1957-1963	2
1964	3
Don't know	4
NORC use	Y

1- 2- 3- 4- 5- 6- 7- 8-

18. Have you yourself ever felt like doing something about the booms. For example have you ever felt like writing or telephoning an official? (Ask each item in A before asking B, etc.)

A. (Ever felt like --	ITEMS				Helping to set up a citizens' committee?
	Writing or telephoning an official?	Visiting an official?	Signing a petition?		
Yes	12-1	13-1	14-1	15-1	
No.	2	2	2	2	
NORC use.	3	3	3	3	
B. Have you or anyone in your family actually done any of these things? (Which?)					
Yes	4*	4*	4*	4*	
No.	5	5	5	5	
NORC use.	6	6	6	6	
*C. IF YES TO ANY ITEM IN B, ASK: Did it do any good?					
Yes				16-1	
No				2	
Don't know				3	
NORC use				Y	
D. If a local organization asked you, do you think you would very likely (insert item), that you might but you're not sure, or that you probably wouldn't?	Write or telephone an official	Visit an official	Sign a petition	Help set up a committee	
Very likely	17-1	18-1	19-1	20-1	
Might	2	2	2	2	
Wouldn't.	3	3	3	3	
Don't know.	4	4	4	4	
NORC use.	Y	Y	Y	Y	

19. On the whole, what do you think the chances are for doing anything about the booms? Would you say there was a very good chance, a good chance, only a fair chance, or hardly any chance at all to improve the situation?

Very good chance.	21-1
Good chance	2
Fair chance	3
Hardly any chance	4
Don't know.	5
NORC use.	Y

0. Do you happen to know where to call if you want to complain about the booms?

Yes	22-1*
No.	2
NORC use.	3

*A. IF YES: Where is that?

23-

21. Do you happen to know which group is responsible for having the booms here?

Yes	24-1*
No.	2
NORC use.	3

*A. IF YES: Which one is that?

FAA	24-4
Air Force	5
Other (<u>Specify</u>) . . .	6
NORC use.	Y

22. A. Do you think people around here should complain about these booms if they find them annoying?

Yes	25-1
No.	2
Don't know.	3
NORC use.	Y

B. Why is that?

26-

23. As you (probably know) (already told me) the recent booms around here are part of a government development program of a new supersonic airplane that will fly about 2000 miles an hour. Do you feel it is absolutely necessary for our country to have such a civilian plane, do you feel it is probably necessary, or do you feel it is not necessary?

Absolutely necessary.	27-1
Probably necessary. .	2*
Not necessary	3*
Don't know.	4*
NORC use.	Y

*IF PROBABLY, NOT, OR DON'T KNOW, ASK A

A. As you may know, the French, British and the Russians are already building a commercial supersonic airplane. If these countries have such a plane, would you feel it absolutely necessary for Americans to make one too, would it probably be necessary, or would it not be necessary?

Absolutely necessary.	28-1
Probably necessary. .	2**
Not necessary	3**
Don't know.	4**
NORC use.	Y

**IF PROBABLY, NOT, OR DON'T KNOW ON "A", ASK B

B. If the sonic boom could be reduced, would you feel it desirable for us to have a commercial plane that travels about 2,000 miles an hour, or don't you feel we need such a plane?

Desirable	29-1
Not necessary	2
Don't know.	3
NORC use.	Y

24. From what you know about the government's study of supersonic airplanes around here, do you definitely feel the study should be made around here, that it probably should be, or that it should not be made around here?

Definitely should	30-1
Probably should	2
Should not.	3
Don't know.	4
NORC use.	Y

25. How about civilian airplanes and the commercial air transportation industry in general -- How important do you feel they are to our national welfare -- extremely important, moderately important, a little important or not very important?

Extremely important	31-1
Moderately.	2
A little.	3
Not very important.	4
Don't know.	5
NORC use.	Y

- 13 -
How about the importance of civilian aviation to the welfare of Oklahoma City and surrounding towns -- Do you feel it is extremely important, moderately important, a little important or not very important?

Extremely important	32-1
Moderately.	2
A little.	3
Not very important.	4
Don't know.	5
NORC use.	Y

A. If this area received eight booms every day throughout the year from a civilian supersonic airplane, do you think you very likely could learn to live with it after a while, that you might but you're not sure, or do you think you probably couldn't learn to live with it?

Very likely	33-1*
Might	2*
Couldn't.	3*
Don't know.	4*
NORC use.	Y

* IF COULDN'T OR DON'T KNOW TO "A", ASK B

B. How about 5 or 6 civilian booms every day? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	34-1
Might	2
Couldn't.	3**
Don't know.	4**
NORC use.	Y

** IF COULDN'T OR DON'T KNOW TO "B", ASK C

C. How about 1 or 2 civilian booms every day? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	35-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

IF VERY LIKELY OR MIGHT TO "A", ASK D

D. How about 10-12 civilian booms every day? (Do you think you could very likely learn to live with it, that you might but you're not sure, or that you probably couldn't learn to live with it?)

Very likely	36-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

28. And how about several civilian booms every night? (Do you think you could very likely learn to live with it, that you might but you're not sure, or that you probably couldn't learn to live with it?)

Very likely	37-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

Now we have what we call background information and we'll be through.

29. Family Composition:

including yourself, how many people live with you in this house? _____

Please list them for me.

Relation to Respondent	Sex	About how old is:
Respondent	M F	38-
	M F	39-
	M F	
	M F	
	M F	
	M F	

30. Have you ever felt like moving away from this area?

Yes	40-1*
No.	2
NORC use.	3

*A. IF YES: Have you taken any definite steps to find another place?

Yes	4
No.	5
NORC use.	Y

31. Now what is the highest grade of school you've completed?

Completed 0-4 years of grade school . . .	41-1
Completed 5-6 years of grade school . . .	2
Completed 7-8 years of grade school . . .	3
Completed 1-3 years of high school.	4
Completed 4 years of high school.	5
Completed 1-3 years of college.	6
Completed 4 or more years of college.	7
NORC use.	Y

32. (HAND RESPONDENT CARD) Now for statistical purposes, we need to know something about family incomes. Would you just tell me which of the following six categories comes closest to the amount all members of your family earned all together last year. I mean, how much did they get all together from all sources before taxes and other deductions?
(Read categories)

A. Less than \$4,000	42-1
B. \$4,000 but less than \$6,000.	2
C. \$6,000 but less than \$8,000.	3
D. \$8,000 but less than \$10,000	4
E. \$10,000 but less than \$15,000.	5
F. \$15,000 or more.	6
Refused.	7
NORC use	Y

33. Now here's a different kind of question. I have a list of noises which sometimes annoy people. Do these ever annoy you when you hear them?
(Read list)

	<u>Annoy</u>		<u>Never</u>
	<u>Yes</u>	<u>No</u>	<u>Hear</u>
A. The noise of a lawn mower.	43-1	44-1	45-1
B. A dripping faucet	2	2	2
C. A dog barking continuously	3	3	3
D. The sound of a knife grating on a			
-----Plate-----	4	4	4
E. Somebody whistling out of tune	5	5	5
F. Somebody switching on the radio or			
TV when you want to be quiet.	6	6	6
G. A pneumatic drill.	7	7	7
H. A banging door	8	8	8

46-

34. Would you say you were more sensitive or less sensitive than most people are to noise?
More sensitive. 47-1
Less sensitive. 2
Same. 3
Don't know. 4
NORC use. Y

35. Would you say you were more sensitive or less sensitive than most people are to things in general?
More sensitive. 48-1
Less sensitive. 2
Same. 3
Don't know. 4
NORC use. Y

36. How far would you agree or disagree with people who say "noise is one of the biggest nuisances of modern times" --
Would you agree strongly, agree, disagree, or disagree strongly?
Agree strongly. 49-1
Agree 2
Disagree. 3
Disagree strongly 4
Don't know. 5
NORC use. Y

37. By the way, have you ever flown in a plane? Yes 50-1*
No. 2**
Don't know. 3
NORC use. Y

***IF YES, ASK A & B**

A. About how many times?

Once or twice - a few . . . 51-1
Three or four 2
Five or more. 3
Don't know. 4
NORC use. Y

B. When was the last time?

12 months ago or less . . . 52-1
One to 3 years ago. 2
Four or more years ago. . . 3
Don't know. 4
NORC use. Y

****IF NO, ASK C**

C. Has anyone in your family ever flown in one?

Yes 53-1
No. 2
Don't know. 3
NORC use. Y

38 A. Could you tell me who is the main earner in this family?

B. What sort of work does (main earner in the family) do?

Job:

Industry:

Place:

54-

IF RESPONDENT IS NOT MAIN EARNER, ASK C - E

C. Do you have a job away from home?

Yes 1*
No. 2**
Don't know. 3

***IF YES TO C, ASK D**

D. What sort of work is that?

Job:

Industry:

Place:

55-

****IF NO TO C, ENTER STATUS BELOW: (Student, Housewife, Retired, etc.)**

9. Have you or anyone in your family ever worked for the Federal Aviation Agency or any civilian aviation company?

Yes	56-1*
No.	2**
Don't know.	3
NORC use.	Y

*A. IF YES: Are you (they) working there now?

Yes	57-1
No.	2
Don't know.	3
NORC use.	Y

**B. IF NO: Have you or anyone in your family ever worked for the Air Force or any company that does much of its business with the aviation industry?

Yes	58-1
No.	2
Don't know.	3
NORC use.	Y

40. (Casually) By the way, had you heard anything about this survey before this interview?

Yes	59-1*
No.	2
NORC use.	3

*A. IF YES: What have you heard? (Who was doing the survey? For what purpose?)

41. A. Now in case the office finds I've left something out, what would be the best time to call you? (Enter on first page)

B. And what is your phone number? (Enter on first page)

42. Is there anything else you'd like to tell me, that I haven't already asked you? 61-

62-

63-

64-

65-

66-

67-

68-

69-

70-

71-

72-

73-

Well, I guess that's it. Thanks for all your help.

74-

TO BE COMPLETED BY THE INTERVIEWER AFTER THE INTERVIEW

75-

1. Was the respondent suspicious of the stated purpose of the interview or the interviewer? 76-

Yes () No () 77-

IF YES, EXPLAIN:

78-

79-

80- 2

2. Was the respondent always relaxed and willing to answer all questions frankly, or was he sometimes tense, defensive, uncooperative?

Always frank -- yes () No ()

IF NO, EXPLAIN:

NATIONAL OPINION RESEARCH CENTER
University of Chicago

Second Interview (First Callback)

Assignment No. _____ Time for Callback _____

Telephone No. _____ First Interviewer _____

Name of Respondent _____ Date of 1st Interview _____

Respondent Description _____

Address _____

9-

Re-interview assigned to: Time Began _____

Time Ended _____

Hello. This is _____ from the opinion research center. About _____ weeks ago we interviewed (you, your wife, your husband) on a survey we are doing around here. /Is (he,she) home now?/ I'd like to thank you again for your help and I've been asked to check a few additional things with you.

1. First, during the last few weeks, have you heard any booms from the jets flying near here?

Yes	10-1
No.	2*
NORC use.	Y

*IF NO, ASK "A" THEN END INTERVIEW

A. Have you been at home during most of the last month or so, or have you been away?

At home	11-1
Away.	2
NORC use.	Y

2. Were the booms you heard recently louder than usual, about the same, or not as loud as usual?

Louder.	12-1*
Same.	2
Not as loud	3
Don't know.	4
NORC use.	Y

*IF LOUDER, ASK A

A. Would you say these louder booms are much more annoying, a little more annoying, or not as annoying as the other ones?

Much more annoying. . .	13-1
A little more	2
Same.	3
Not as annoying . . .	4
Don't know.	5
NORC use.	Y

3. A. In the last month or so, during the morning hours, have you heard more booms than usual, about the same, or less than usual?

B. How about the late afternoon? (Have you heard more booms, about the same, or less than usual?)

	<u>Morning</u>	<u>Late Afternoon</u>
More.	14-1*	15-1
Same.	2	2
Less.	3	3
Practically none. . . .	4	4
Don't know.	5	5
NORC use.	Y	Y

*IF MORE IN MORNING, ASK C

C. Would you say having more booms during the morning is much more annoying, a little more annoying, or not as annoying as before?

Much more annoying. . .	16-1
A little more	2
Same.	3
Not as annoying . . .	4
Don't know.	5
NORC use.	Y

4. Did any of the recent booms --
(ask each item below)

*IF "YES" TO Q. 4, ASK "A" BEFORE GOING ON TO
NEXT ITEM

A. And how annoyed did this make you feel --

	Yes	No	NORC	Only Or Not				
				Very Annoyed	Moderately Annoyed	a little Annoyed	at all Annoyed	DK
1) Interfere with your radio or TV?	17-1*	2	3	4	5	6	7	Y
2) Startle or frighten anyone in your family?	18-1*	2	3	4	5	6	7	Y
3) Disturb your family's sleep?	19-1*	2	3	4	5	6	7	Y
4) Make your house rattle or shake?	20-1*	2	3	4	5	6	7	Y
5) Interfere with your family's rest or relaxation?	21-1*	2	3	4	5	6	7	Y
6) Interfere with your conversation?	22-1*	2	3	4	5	6	7	Y

5. Did any of the recent booms during the last month or so hurt or damage anything in your house?

Yes 23-1*
No. 2
NORC. Y

*IF YES, ASK A

A. Just what did they do? (Probe for specific damage)

Cracked walls or plaster.	24-1
Cracked, broke windows.	2
Cracked, damaged structures	3
Broke tiles or fixed object	4
Broke, knocked down moveable objects	5
Person injured.	6
Person fell - not injured	7
Person dropped something.	8
Other types of damage	9
Don't know.	X
NORC use.	Y

6. And did you feel like doing something about stopping or reducing the recent booms? For example, did you feel like writing or telephoning an official? (Ask each item in A before asking B, etc.)

A. Felt like --	ITEMS				Helping to set up a citizens committee?
	Writing or telephoning an official?	Visiting an official?	Signing a petition?	28-1	
Yes	25-1	26-1	27-1	28-1	
No.	2	2	2	2	
NORC use.	3	3	3	3	
B. Have you or anyone in your family here actually done any of these things about stopping or reducing the recent booms? (Which?)					
Yes	4	4	4	4	
No.	5	5	5	5	
NORC use.	6	6	6	6	

7. A. If your area regularly received booms from a civilian jet as often and as loud as the recent ones, do you think most people around here would very likely learn to live with it, that they might, or that they probably wouldn't learn to live with it?

B. And how about yourself -- would you very likely learn to live with it, you might, or you probably wouldn't be able to live with it?

	A <u>Most People</u>	B <u>Self</u>
Very likely	29-1	30-1
Might	2	2
Would not	3	3
Don't know.	4	4
NORC use.	Y	Y

8. Do you yourself feel it is absolutely necessary for the jets to make these booms around here, or not?

Yes	31-1
No.	2
Don't know.	3
NORC use.	Y

Well, I guess that's it. Thanks again for all your help.

32-

33-

34-

35-

36-

37-

38-

Interviewer's Signature: _____ Date: _____

1- 2- 3- 4- 5- 6- 7- 8-

NATIONAL OPINION RESEARCH CENTER
University of Chicago

First Interview (Telephone)

(Also Used for Control Interview at Time of First Callback)

Assignment No.: _____

Time Interview Began: _____

Telephone No.: _____

Time Interview Ended: _____

Date: _____

9-

Name on
Telephone List: _____

Description
Respondent (Q. 22): _____

Address: _____

Hello. (Is this the home of _____ at _____?) I'm from the opinion research center at the University of Chicago. We are doing a study of how people feel about living in different places and I'd like to get some of your views.

1. The first question is: In general, how do you like living in your area?
Do you rate it as an excellent, good, fair, or poor place to live?

Excellent	10-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

2. Now, very few places are entirely perfect. So I'd like you to tell me if there are many things, a few things or hardly anything you dislike about living around here?

Many things	11-1
Few things.	2
Hardly anything	3
Don't know.	4
NORC use.	Y

3. Now of all the things you don't like (there must be some) -- things you may feel are nuisances, irritations, disturbances, or bothersome conditions, which one thing do you dislike the most?

Nothing disliked.	12-1*
Sonic booms, big booms.	2
Noise - airplane.	3
Noise - other	4
Danger - traffic, no sidewalks.	5
Danger - other conditions	6
Location poor, inconvenient to facilities, jobs	7
Transportation, roads, highways, buses inadequate	8
Schools - buildings, instruction, transportation inadequate .	9
Community facilities - other inadequate	0
Social aspects, dislike people, unfriendly.	X
Zoning problems, mixed residence-business	13-1
Overcrowded, not enough privacy, space.	2
Taxes too high, earning tax unfair.	3
Economic problems, no jobs, prices too high	4
Government poor, corrupt, pressure for annexation	5
All other reasons	6
Don't know.	X
NORC use.	Y

IF SOMETHING DISLIKED MENTIONED, ASK E - G ON THE NEXT PAGE

*IF NOTHING DISLIKED OR DON'T KNOW, ASK A

A. At any time in the past, was there ever anything around here that you felt was a public problem or a nuisance, an irritation, a disturbance, or a bothersome condition?

Yes	14-1**
No.	2
NORC use.	Y

**IF YES, ASK B - D

B. Did you ever feel like doing something about this? For example, did you ever feel like:

	B			C		
	Yes	No	NORC	Yes	No	NORC
1) Writing or telephoning an official about it?	15-1	2	3	4	5	Y
2) Visiting an official?	16-1	2	3	4	5	Y
3) Signing a petition?	17-1	2	3	4	5	Y
4) or helping to set up a citizens' committee to do something?	18-1	2	3	4	5	Y

ASK C AFTER FINISHING PART B, AND CIRCLE YES OR NO CODES ABOVE FOR EACH OF THE FOUR ITEMS

C. Did you or anyone in your family ever actually do any of these things? (Which?)

D. And what did you think the chances were to do something about that situation -- very good, good, fair or poor?

Very good	19-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

E SOMETHING DISLIKED IN Q. 3, ASK E - G

E. Have you yourself ever felt like doing something about this?
For example, have you ever felt like:

	E			F		
	Yes	No	NORC	Yes	No	NORC
1) Writing or telephoning an official? . .	20-1	2	3	4	5	Y
2) Visiting an official?	21-1	2	3	4	5	Y
3) Signing a petition?	22-1	2	3	4	5	Y
4) or helping to set up a citizens' committee to do something?	23-1	2	3	4	5	Y

ASK F AFTER FINISHING PART E, AND CIRCLE YES OR NO CODES ABOVE FOR EACH OF THE THE FOUR ITEMS

F. Did you or anyone in your family ever actually do any of these things?
(Which?)

G. And what do you think the chances are to do something about this -- very good, good, fair or poor?

Very good	24-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

4. On the whole would you rate this area as very noisy, fairly noisy, fairly quiet, or very quiet?

Very noisy.	25-1
Fairly noisy.	2
Fairly quiet.	3
Very quiet.	4
Don't know.	5
NORC use.	Y

5. A. And what are some of the different kinds of noise you sometimes hear around here? For example, do you ever hear noise from --

	A			B		
	Yes	No	NORC	Yes	No	NORC
1) Cars, trucks or trains going by?	26-1*	2	3	4	5	Y
2) Neighbors or children?	27-1*	2	3	4	5	Y
3) Sonic booms from jets?	28-1*	2**	3	4	5	Y
4) Ordinary airplane noise?	29-1*	2	3	4	5	Y

*IF YES TO ANY NOISE, ASK B, AND CIRCLE YES OR NO CODE FOR EACH NOISE HEARD

B. Do any of these noises ever bother or annoy you or anyone in your family in any way? (Which noises?)

**IF NO TO "BOOMS" (DO NOT HEAR BOOMS), SKIP TO Q. 17.

ASK Qs. 6-16 ONLY IF YES TO BOOMS (DO HEAR BOOMS)

6. Now I'd like to get a better idea of how you feel about some of these noises. First, have you heard or read anything about the recent sonic booms around here

Yes	30-1
No.	2
NORC use.	Y

7. Could you tell me what causes the jets to make a boom?

Break sound barrier	31-1
Create pressure waves	2
Planes fly faster than sound.	3
Other (Specify)	4
Don't know.	5
NORC use.	Y

8. Do you happen to know why the jets making booms fly around here?
(Why is that?)

Don't know.	32-0
Sonic boom test	1
FAA-SST test.	2
Air Force Practice.	3
Other (Specify)	4

9. A. Do you yourself feel it is absolutely necessary for the jets to make these booms around here or not?

B. From what you've heard or read, do you think most other people around here feel it is absolutely necessary or not?

	A <u>Self</u>	B <u>Others</u>
Necessary	33-1	34-1
Not necessary	2	2
Don't know.	3	3
NORC use.	Y	Y

10. Do you usually hear the booms about the same time each day, or do they happen at different times each day?

Same time	35-1
Different times	2
Don't know.	3
NORC use.	Y

11. Do you happen to know how long these booms are supposed to continue altogether? How long?

Don't know.	36-0
One month or less	1
2 months.	2
3 months.	3
4 months.	4
5 months.	5
6 months.	6
7 months.	7
Indefinitely.	8
NORC use.	Y

12. Can you tell me if the recent booms ever (Ask each item below)
(Do they ever. . .)

Interfere with your radio or TV?	37-1*	2	3	4	5	6	7	8	9	0	X	Y
Startle or frighten anyone in your family?	38-1*	2	3	4	5	6	7	8	9	0	X	Y
Disturb your family's sleep?	39-1*	2	3	4	5	6	7	8	9	0	X	Y
Make your house rattle or shake?	40-1*	2	3	4	5	6	7	8	9	0	X	Y
Interfere with your family's rest or relaxation?	41-1*	2	3	4	5	6	7	8	9	0	X	Y
Interfere with your conversation?	42-1*	2	3	4	5	6	7	8	9	0	X	Y

*IF YES TO ANY ITEM IN Q. 12, ASK A & B BEFORE GOING ON TO NEXT ITEM

A. How often is that. B. And how annoyed does this make you feel.

Yes	No	NORC	very often	fairly or only often	occasionally?	DK	very annoyed	moderately annoyed	annoyed	NORC	only a little	or not at all	DK

A. Just what did they do? (Probe for specific damage) (Anything else?)	43-1	1956 Air Show.	43-1*	44-1
		1957-1963.	2	2
		Broke use.	3	3
			4	4
			5	5
			6	6
			7	7
			8	8
			9	9
			0	0

13. Have the booms ever hurt or damaged anything in your house?

*IF YES, ASK A & B

A. Just what did they do? (Probe for specific damage)
(Anything else?)

Cracked walls or plaster.	2	Cracked, broke windows.	2	Cracked, damaged structures	3	Broke tiles or fixed object	4	Broke, knocked down moveable objects.	5	Person injured.	6	Person fell-not injured	7	Person dropped something.	8	Other types of damage	9	Don't know.	0	NORC use.	Y
-----------------------------------	---	---------------------------------	---	---------------------------------------	---	---------------------------------------	---	---	---	-------------------------	---	-----------------------------------	---	-----------------------------------	---	---------------------------------	---	---------------------	---	-------------------	---

14. Have you yourself ever felt like doing something about the booms? For example have you ever felt like writing or telephoning an official? (Ask each item in A before asking B, etc.)

A. (Ever felt like --

	ITEMS			
	Writing or telephoning an official?	Visiting an official?	Signing a petition?	Helping to set up a citizens' committee?
Yes.	46-1	47-1	48-1	49-1
No	2	2	2	2
NORC use	3	3	3	3

B. Have you or anyone in your family actually done any of these things? (Which?)

Yes.	4*	4*	4*	4*
No	5	5	5	5
NORC use	6	6	6	6

*C. IF YES TO ANY ITEM IN "B", ASK: Did it do any good?

Yes	50-1
No.	2
Don't know. . . .	3
NORC use.	Y

D. If a local organization asked you, do you think you would very likely (insert item), that you might but you're not sure, or that you probably wouldn't?

	Write or telephone an official	Visit an official	Sign a petition	Help set up a committee
Very likely.	51-1	52-1	53-1	54-1
Might.	2	2	2	2
Wouldn't	3	3	3	3
Don't know	4	4	4	4
NORC use	Y	Y	Y	Y

15. On the whole, what do you think the chances are for doing anything about the booms? Would you say there was a very good chance, a good chance, only a fair chance, or hardly any chance at all to improve the situation?

Very good chance.	55-1
Good chance	2
Fair chance	3
Hardly any chance	4
Don't know.	5
NORC use.	Y

16. Do you think people around here should complain about these booms if they find them annoying?

Yes	56-1
No.	2
Don't know.	3
NORC use.	Y

ASK EVERYBODY

ASK EVERYBODY

17. As you (probably know) (already told me) the recent booms around here are part of a government development program of a new supersonic airplane that will fly about 2000 miles an hour. Do you feel it is absolutely necessary for our country to have such a civilian plane, do you feel it is probably necessary, or do you feel it is not necessary?

Absolutely necessary . . .	57-1
Probably necessary	2 ¹
Not necessary	3 ¹
Don't know.	4 ¹
NORC use.	Y

*IF PROBABLY, NOT, OR DON'T KNOW, ASK A

A. As you may know, the French, British and Russians are already building a commercial supersonic airplane. If these countries have such a plane, would you feel it absolutely necessary for Americans to have one too, would it probably be necessary, or would it not be necessary?

Absolutely necessary . . .	58-1
Probably necessary	2 ¹
Not necessary	3 ¹
Don't know.	4 ¹
NORC use.	Y

**IF PROBABLY, NOT, OR DON'T KNOW ON "A", ASK B

B. If the sonic boom could be reduced, would you feel it desirable for us to have a commercial plane that travels about 2,000 miles an hour, or don't you feel we need such a plane?

Desirable	59-1
Not necessary	2
Don't know.	3
NORC use.	Y

18. How about civilian airplanes and the commercial air transportation industry in general -- How important do you feel they are to our national welfare -- extremely important, moderately important, a little important or not very important?

Extremely important . . .	60-1
Moderately	2
Little.	3
Not very important. . . .	4
Don't know.	5
NORC use.	Y

19. How about the importance of civilian aviation to the welfare of Oklahoma City and surrounding towns -- Do you feel it is extremely important, moderately important, a little important or not very important?

Extremely important . . .	61-1
Moderately	2
Little.	3
Not important	4
Don't know.	5
NORC use.	Y

20. A. If this area received eight booms every day throughout the year from a civilian supersonic airplane, do you think you could very likely learn to live with it after a while, that you might but you're not sure, or do you think you probably couldn't learn to live with it?

Very likely	62-1#
Might	2#
Couldn't.	3*
Don't know.	4*
NORC use.	Y

*IF COULDN'T OR DON'T KNOW TO "A", ASK B

B. How about 5 or 6 civilian booms every day? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	63-1
Might	2
Couldn't.	3**
Don't know.	4**
NORC use.	Y

**IF COULDN'T OR DON'T KNOW TO "B", ASK C

C. How about 1 or 2 civilian booms every day? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	64-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

#IF VERY LIKELY OR MIGHT ON "A", ASK D

D. How about 10-12 civilian booms every day? (Do you think you could very likely learn to live with it, that you might but you're not sure, or that you probably couldn't learn to live with it?)

Very likely	65-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

21. And how about several civilian booms every night? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	66-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

Now we have what we call background information and we'll be through.

22. Family Composition:

Including yourself, how many people live with you in this house? _____
Please list them for me.

<u>Relation to Respondent</u>	<u>Sex</u>	<u>About how old is</u>	
<u>Respondent</u>	M F		67-
	M F		68-
	M F		
	M F		
	M F		
	M F		

23. Now what is the highest grade of school you completed?

Completed 0-4 years of grade school . . .	69-1
Completed 5-6 years of grade school . . .	2
Completed 7-8 years of grade school . . .	3
Completed 1-3 years of high school. . . .	4
Completed 4 years of high school.	5
Completed 1-3 years of college.	6
Completed 4 or more years of college. . .	7
NORC use.	Y

24. Now for statistical purposes, we need to know something about family incomes. Would you just tell me which of the following six categories comes closest to the amount all members of your family earned all together from all sources before taxes and other deductions? (Read categories)

A. Less than \$4,000	70-1
B. \$4,000 but less than \$6,000.	2
C. \$6,000 but less than \$8,000.	3
D. \$8,000 but less than \$10,000	4
E. \$10,000 but less than \$15,000. . . .	5
F. \$15,000 or more.	6
Refused	7
NORC use.	Y

5. A. Are you usually at home during the morning hours?

B. How about the afternoon? (Are you usually at home?)

C. And the evening hours?

	<u>At Home</u>	<u>Not At Home</u>	<u>NORC</u>
A. Morning (7AM-12 Noon)	71-1	2	Y
B. Afternoon (Noon-6 PM)	72-1	2	Y
C. Evening (6PM-11PM)	73-1	2	Y

6. Have you or anyone in your family worked for the Federal Aviation Agency or any civilian aviation company?

Yes	74-1*
No.	2**
Don't know.	3
NORC use.	Y

*A. IF YES: Are you (they) working there now?

Yes	75-1
No.	2
Don't know.	3
NORC use.	Y

**B. IF NO: Have you or anyone in your family ever worked for the Air Force or any company that does much of its business with the aviation industry?

Yes	76-1
No.	2
Don't know.	3
NORC use.	Y

27. (Casually) By the way, had you heard anything about this survey before this interview?

Yes	77-1*
No.	2
NORC use.	3

*A. IF YES: What have you heard? (Who was doing the survey? For what purpose?)

78-

28. Now in case the office finds I've left something out, what would be the best time to call you?

Well, I guess that's it. Thanks for all your help.

TO BE COMPLETED BY THE INTERVIEWER AFTER THE INTERVIEW

1. Was the respondent suspicious of the stated purpose of the interview or the interviewer?

Yes () No ()

IF YES, EXPLAIN:

2. Was the respondent always relaxed and willing to answer all questions frankly, or was he sometimes tense, defensive, uncooperative?

Always frank -- Yes () No ()

IF NO, EXPLAIN:

79-

80-3

Interviewer's Signature: _____

2- 3- 4- 5- 6- 7- 8-

NATIONAL OPINION RESEARCH CENTER
University of Chicago

Third Interview (Second Callback)

Assignment No. _____ Time for Callback _____

Telephone No. _____ First Interviewer _____

Name of Respondent _____ Date of 1st Interview _____

Address _____

9-

e-interview assigned to: Time Began _____

Time Ended _____

Hello. This is _____ from the opinion research center. About _____ weeks ago we talked to (you, your wife, your husband) on a survey we are doing here. (Is (he, she) home now?) Well we're finishing up our survey here this week and I thought I'd just check a few things before we leave.

1. First, have you been at home most of the last month or so, or have you been away?

At home	10-1
Away	2*
NORC use.	y

*IF AWAY, ASK Q. 6 ON PAGE 4

2. A. Were the booms you heard recently louder than usual, about the same, or not as loud as usual?

Louder	11-1
Same	2
Not as loud	3
Don't know	X
NORC use	y

B. Would you say these recent booms are much more annoying, a little more annoying, or not as annoying as the other ones?

Much more annoying . . .	12-1
A little more	2
Same	3
Not as annoying	4
Don't know	X
NORC use	y

3. Did any of the recent booms --
(ask each item below)

*IF YES TO Q.3, ASK "A" BEFORE GOING ON TO
NEXT ITEM

A. And how annoyed did this make you feel --

		<u>Yes</u>	<u>No</u>	<u>NORC</u>	<u>Very Annoyed</u>	<u>Moderately Annoyed</u>	<u>a little Annoyed</u>	<u>at all Annoyed</u>	<u>Or not Annoyed</u>	<u>DK</u>	<u>NORC</u>
1) Interfere with your radio or TV?	13-1*	2	3	4		5	6	7		y	
2) Startle or frighten anyone in your family?	14-1*	2	3	4		5	6	7		y	
3) Disturb your family's sleep?	15-1*	2	3	4		5	6	7		y	
4) Make your house rattle or shake?	16-1*	2	3	4		5	6	7		y	
5) Interfere with your family's rest or relaxation?	17-1*	2	3	4		5	6	7		y	
6) Interfere with your conversation?	18-1*	2	3	4		5	6	7		y	

• Since I talked to you last time, did any of the recent booms hurt or do any new damage to anything in your house?

Yes	19-1*
No	2
NORC	y

***IF YES, ASK A**

A. Just what did they do? (Probe for specific damage)

Cracked walls or plaster	20-1
Cracked, broke windows	2
Cracked, damaged structures.	3
Broke tiles or fixed objects	4
Broke, knocked down moveable objects	5
Person injured	6
Person fell - not injured	7
Person dropped something	8
Other types of damage	9
Don't know	X
NORC use	y

5. And did you feel like doing something about stopping or reducing the recent booms? For example, did you feel like writing or telephoning an official?
(Ask each item in A before asking B, etc.)

A. Felt like --	ITEMS			
	Writing or telephoning <u>an official?</u>	Visiting an <u>official?</u>	Signing a <u>petition?</u>	Helping to set up a citizens <u>committee?</u>
Yes	21-1	22-1	23-1	24-1
No	2	2	2	2
NORC use	3	3	3	3
B. Have you or anyone in your family here actually done any of these things about stopping or reducing the recent booms? (Which?)				
Yes	4	4	4	4
No	5	5	5	5
NORC use	6	6	6	6

6. Do you happen to know why the jets making booms have been flying around here?

Yes (ASK A)	25-
No	
NORC use	

***IF YES, ASK A:**

A. Why is that?

Sonic boom test	26-
FAA-SST test	
Air Force Practice	
For SST Air Terminal	
Other (Specify)	

NORC use

7. Do you yourself feel it is absolutely necessary for the jets to make these booms around here or not?

Yes	27-
No	
Don't know	
NORC use	

8. Do you have any idea how much longer these booms are supposed to continue around here?

Yes (ASK A)	28-
No	

***IF YES, ASK A:**

A. How much longer?

Less than 1 week	29-
One week	
Two weeks	
Three weeks	
Four weeks	
Five or more weeks	
Don't know	
NORC use	

9. Do you feel the booms should be stopped right away or do you feel they should be continued until they have served their purpose?

Stopped	30-
Continued	
Don't know	
NORC use	

10. A. Do you think people around here should complain about the booms if they find them annoying?

Yes	31-1
No	2
Don't know	X
NORC use	y

B. Why do you say that?

32-

11. A. If your area received booms from a civilian jet as often and as loud as the recent ones for an indefinite period of time, do you think most people around here would very likely learn to live with it, that they might, or that they probably wouldn't learn to live with it?

B. And how about yourself -- would you very likely learn to live with it, you might, or you probably wouldn't be able to live with it?

	<u>A</u> <u>Most People</u>	<u>B</u> <u>Self</u>
Very likely . . .	33-1	34-1
Might	2	2
Would not	3	3
Don't know	X	X
NORC use	y	y

Well I guess that's it. Thanks again for all your help.

Interviewer's Signature _____

Date _____

1- 2- 3- 4- 5- 6- 7- 8-

Green (Form 11)

NATIONAL OPINION RESEARCH CENTER
University of Chicago

Control Interview (At Time of Second Callback)

Assignment No.: _____

Time Interview Began: _____

Telephone No.: _____

Time Interview Ended: _____

Date: _____

9-

Name on
Telephone List: _____

Description
Respondent (Q. 22): _____

Address: _____

Hello. (Is this the home of _____ at _____?) I'm from the opinion research center at the University of Chicago. We are doing a study of how people feel about living in different places and I'd like to get some of your views.

1. The first question is: In general, how do you like living in your area?
Do you rate it as an excellent, good, fair, or poor place to live?

Excellent	10-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

2. Now, very few places are entirely perfect. So I'd like you to tell me if there are many things, a few things or hardly anything you dislike about living around here?

Many things	11-1
Few things.	2
Hardly anything	3
Don't know.	4
NORC use.	Y

3. Now of all the things you don't like (there must be some) -- things you may feel are nuisances, irritations, disturbances, or bothersome conditions, which one thing do you dislike the most?

Nothing disliked.	12-1
Sonic booms, big booms.	2
Noise - airplane.	3
Noise - other	4
Danger - traffic, no sidewalks.	5
Danger - other conditions	6
Location poor, inconvenient to facilities, jobs	7
Transportation, roads, highways, buses inadequate	8
Schools - buildings, instruction, transportation inadequate .	9
Community facilities - other inadequate	0
Social aspects, dislike people, unfriendly.	X
Zoning problems, mixed residence-business	13-1
Overcrowded, not enough privacy, space.	2
Taxes too high, earning tax unfair.	1
Economic problems, no jobs, prices too high	6
Government poor, corrupt, pressure for annexation	5
All other reasons	6
Don't know.	2
NORC use.	1

IF SOMETHING DISLIKED MENTIONED, ASK E - G ON THE NEXT PAGE

*IF NOTHING DISLIKED OR DON'T KNOW, ASK A

A. At any time in the past, was there ever anything around here that you felt was a public problem or a nuisance, an irritation, a disturbance, or a bothersome condition?

Yes	14-
No.	1
NORC use.	1

**IF YES, ASK B - D

B. Did you ever feel like doing something about this? For example, did you ever feel like:

	B			C		
	Yes	No	NORC	Yes	No	NORC
1) Writing or telephoning an official about it?	15-1	2	3	4	5	Y
2) Visiting an official?	16-1	2	3	4	5	Y
3) Signing a petition?	17-1	2	3	4	5	Y
4) or helping to set up a citizens' committee to do something?	18-1	2	3	4	5	Y

ASK C AFTER FINISHING PART B, AND CIRCLE YES OR NO CODES ABOVE FOR EACH OF THE FOUR ITEMS

C. Did you or anyone in your family ever actually do any of these things? (Which?)

D. And what did you think the chances were to do something about that situation -- very good, good, fair or poor?

Very good	19-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

IF SOMETHING DISLIKED IN Q. 3, ASK E - G

E. Have you yourself ever felt like doing something about this?
For example, have you ever felt like:

	E			F		
	<u>Yes</u>	<u>No</u>	<u>NORC</u>	<u>Yes</u>	<u>No</u>	<u>NORC</u>
1) Writing or telephoning an official?..	20-1	2	3	4	5	Y
2) Visiting an official?..	21-1	2	3	4	5	Y
3) Signing a petition?..	22-1	2	3	4	5	Y
4) or helping to set up a citizens' committee to do something?	23-1	2	3	4	5	Y

ASK F AFTER FINISHING PART E, AND CIRCLE YES OR NO CODES ABOVE FOR EACH OF THE THE FOUR ITEMS

F. Did you or anyone in your family ever actually do any of these things?
(Which?)

G. And what do you think the chances are to do something about this -- very good, good, fair or poor?

Very good	24-1
Good.	2
Fair.	3
Poor.	4
Don't know.	5
NORC use.	Y

4. On the whole would you rate this area as very noisy, fairly noisy, fairly quiet, or very quiet?

Very noisy.	25-1
Fairly noisy.	2
Fairly quiet.	3
Very quiet.	4
Don't know.	5
NORC use.	Y

5. A. And what are some of the different kinds of noise you sometimes hear around here? For example, do you ever hear noise from --

	A			B		
	<u>Yes</u>	<u>No</u>	<u>NORC</u>	<u>Yes</u>	<u>No</u>	<u>NORC</u>
1) Cars, trucks or trains going by?	26-1*	2	3	4	5	Y
2) Neighbors or children?	27-1*	2	3	4	5	Y
3) Sonic booms from jets?	28-1*	2**	3	4	5	Y
4) Ordinary airplane noise?	29-1*	2	3	4	5	Y

***IF YES TO ANY NOISE, ASK B, AND CIRCLE YES OR NO CODE FOR EACH NOISE HEARD**

B. Do any of these noises ever bother or annoy you or anyone in your family in any way? (Which noises?)

****IF NO TO "BOOMS" (DO NOT HEAR BOOMS), SKIP TO Q. 17.**

ASK Qs. 6-16 ONLY IF YES TO BOOMS (DO HEAR BOOMS)

6. Now I'd like to get a better idea of how you feel about some of these noises. First, have you heard or read anything about the recent sonic booms around here

Yes	30-1
No	1
NORC use.	1

7. Could you tell me what causes the jets to make a boom?

Break sound barrier	31-1
Create pressure waves	1
Planes fly faster than sound. . . .	1
Other (Specify)	1
Don't know.	1
NORC use.	1

8. Do you happen to know why the jets making booms fly around here?
(Why is that?)

Don't know.	32-1
Sonic boom test	1
FAA-SST test.	1
Air Force Practice.	1
Other (Specify)	1

9. A. Do you yourself feel it is absolutely necessary for the jets to make these booms around here or not?

B. From what you've heard or read, do you think most other people around here feel it is absolutely necessary or not?

	A <u>Self</u>	B <u>Others</u>
Necessary	33-1	34-1
Not necessary	2	2
Don't know.	3	3
NORC use.	Y	Y

10. Do you usually hear the booms about the same time each day, or do they happen at different times each day?

Same time	35-1
Different times	2
Don't know.	3
NORC use.	Y

11. A. Do you have any idea how much longer these booms are supposed to continue around here?

Yes (ASK B then C)	36-6
No (ASK C)	7

B. How much longer?

Less than 1 week.	36-0
One week.	1
Two weeks	2
Three weeks	3
Four weeks.	4
Five or more weeks.	5
Don't know.	X
NORC use.	Y

C. Do you feel the booms should be stopped right away or do you feel they should be continued until they have served their purpose?

Stopped	37-1
Continued	2
Don't know.	X
NORC use.	Y

12. Can you tell me if the recent booms ever (Ask each item below)
(Do they ever. . .)

***IF YES TO ANY ITEM IN Q. 12, ASK A & B BEFORE GOING ON TO NEXT ITEM**

A. How often is that. B. And how annoyed does this make you feel.

	Yes	No	NORC	often	often, occasionally?	NORC	annoyed	annoyed	annoyed?	NORC
Interfere with your radio or TV?	38-1*	2	3	4	5	6	7	8	9	0
Startle or frighten anyone in your family?	39-1*	2	3	4	5	6	7	8	9	0
Disturb your family's sleep?	40-1*	2	3	4	5	6	7	8	9	0
Make your house rattle or shake?	41-1*	2	3	4	5	6	7	8	9	0
Interfere with your family's rest or relaxation?	42-1*	2	3	4	5	6	7	8	9	0
Interfere with your conversation?	43-1*	2	3	4	5	6	7	8	9	0

113. Have the booms ever hurt or damaged anything in your house?

***IF YES, ASK A & B**

A. Just what did they do? (Probe for specific damage)
(Anything else?)

as apply)

44-	1956 Air Show.	1957-1963.	Feb-May 1964	June-July 1964	Don't know	NORC use
2	Cracked walls or plaster.					
3	Cracked, broke windows.					
4	Cracked, damaged structures					
5	Broke tiles or fixed object					
6	Broke, knocked down moveable objects.					
7	Person injured.					
8	Person fell-not injured					
9	Person dropped something.					
0	Other types of damage					
	Don't know.					
	NORC use.					

14. Have you yourself ever felt like doing something to stop or reduce the booms? For example have you ever felt like writing or telephoning an official? (Ask each item in A before asking B, etc.)

A. (Ever felt like --

	ITEMS			
	Writing or telephoning an official?	Visiting an official?	Signing a petition?	Helping to set up a citizens' committee?

Yes 46-1 47-1 48-1 49-1
No 2 2 2 2
NORC use. 3 3 3 3

B. Have you or anyone in your family actually done any of these things? (Which?)

Yes 4* 4* 4* 4*
No 5 5 5 5
NORC use. 6 6 6 6

*C. IF YES TO ANY ITEM IN "B", ASK: Did it do any good?

Yes 50-1
No 2
Don't know. . . . 3
NORC use. . . . Y

D. If a local organization wanted to stop or reduce the booms and asked you to (insert item), do you think you would very likely do it, that you might but you're not sure, or that you probably wouldn't.

	Write or telephone an official	Visit an official	Sign a petition	Help set up a committee
--	--------------------------------	-------------------	-----------------	-------------------------

Very likely 51-1 52-1 53-1 54-1
Might 2 2 2 2
Wouldn't. 3 3 3 3
Don't know. 4 4 4 4
NORC use. Y Y Y Y

15. On the whole, what do you think the chances are for doing anything about reducing the booms? Would you say there was a very good chance, a good chance, only a fair chance, or hardly any chance at all to improve the situation?

Very good chance. . . 55-1
Good chance 2
Fair chance 3
Hardly any chance. . . 4
Don't know 5
NORC use Y

16. Do you think people around here should complain about these booms if they find them annoying?

Yes 56-1
No 2
Don't know. 3
NORC use. Y

17. As you (probably know) (already told me) the recent booms around here are part of a government development program of a new supersonic airplane that will fly about 2000 miles an hour. Do you feel it is absolutely necessary for our country to have such a civilian plane, do you feel it is probably necessary, or do you feel it is not necessary?

Absolutely necessary.	57-1
Probably necessary.	2*
Not necessary	3*
Don't know.	4*
NORC use.	Y

*IF PROBABLY, NOT, OR DON'T KNOW, ASK A

A. As you may know, the French, British and Russians are already building a commercial supersonic airplane. If these countries have such a plane, would you feel it absolutely necessary for Americans to have one too, would it probably be necessary, or would it not be necessary?

Absolutely necessary.	58-1
Probably necessary.	2**
Not necessary	3**
Don't know.	4**
NORC use.	Y

**IF PROBABLY, NOT, OR DON'T KNOW ON "A", ASK B

B. If the sonic boom could be reduced, would you feel it desirable for us to have a commercial plane that travels about 2,000 miles an hour, or don't you feel we need such a plane?

Desirable	59-1
Not necessary	2
Don't know.	3
NORC use.	Y

18. How about civilian airplanes and the commercial air transportation industry in general -- How important do you feel they are to our national welfare -- extremely important, moderately important, a little important or not very important?

Extremely important	60-1
Moderately	2
Little.	3
Not very important.	4
Don't know.	5
NORC use.	Y

19. How about the importance of civilian aviation to the welfare of Oklahoma City and surrounding towns -- Do you feel it is extremely important, moderately important, a little important or not very important?

Extremely important	61-1
Moderately	2
Little.	3
Not important	4
Don't know.	5
NORC use.	Y

20. A. If this area received eight booms from a civilian jet as often and as loud as the recent ones for an indefinite period of time, do you think you could very likely learn to live with it after a while, that you might but you're not sure, or do you think you probably couldn't learn to live with it?

Very likely	62-1#
Might	2#
Couldn't.	3★
Don't know.	4★
NORC use.	Y

***IF COULDN'T OR DON'T KNOW TO "A", ASK B**

B. How about 5 or 6 civilian booms every day? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	63-1
Might	2
Couldn't.	3**
Don't know.	4**
NORC use.	Y

****IF COULDN'T OR DON'T KNOW TO "B", ASK C**

C. How about 1 or 2 civilian booms every day? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	64-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

#IF VERY LIKELY OR MIGHT ON "A", ASK D

D. How about 10-12 civilian booms every day? (Do you think you could very likely learn to live with it, that you might but you're not sure, or that you probably couldn't learn to live with it?)

Very likely	65-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

21. And how about several civilian booms every night? (Do you think you very likely could learn to live with that, that you might, or that you probably couldn't learn to live with it?)

Very likely	66-1
Might	2
Couldn't.	3
Don't know.	4
NORC use.	Y

Now we have what we call background information and we'll be through.

22. Family Composition:

Including yourself, how many people live with you in this house? _____
Please list them for me.

<u>Relation to Respondent</u>	<u>Sex</u>	<u>About how old is</u>	
Respondent	M F		67-
	M F		
	M F		68-
	M F		
	M F		
	M F		
	M F		

23. Now what is the highest grade of school you completed?

Completed 0-4 years of grade school	69-1
Completed 5-6 years of grade school	2
Completed 7-8 years of grade school	3
Completed 1-3 years of high school.	4
Completed 4 years of high school.	5
Completed 1-3 years of college.	6
Completed 4 or more years of college.	7
NORC use.	Y

24. Now for statistical purposes, we need to know something about family incomes. Would you just tell me which of the following six categories comes closest to the amount all members of your family earned all together from all sources before taxes and other deductions? (Read categories)

A. Less than \$4,000	70-1
B. \$4,000 but less than \$6,000.	2
C. \$6,000 but less than \$8,000.	3
D. \$8,000 but less than \$10,000	4
E. \$10,000 but less than \$15,000.	5
F. \$15,000 or more.	6
Refused	7
NORC use.	Y

i. A. Are you usually at home during the morning hours?

B. How about the afternoon? (Are you usually at home?)

C. And the evening hours?

	<u>At Home</u>	<u>Not At Home</u>	<u>NORC</u>
A. Morning (7AM-12 Noon)	71-1	2	Y
B. Afternoon (Noon-6 PM)	72-1	2	Y
C. Evening (6PM-11PM)	73-1	2	Y

6. Have you or anyone in your family worked for the Federal Aviation Agency or any civilian aviation company?

Yes	74-1*
No.	2**
Don't know.	3
NORC use.	Y

*A. <u>IF YES:</u> Are you (they) working there now?	Yes	75-1
	No.	2
	Don't know.	3
	NORC use.	Y

**B. IF NO: Have you or anyone in your family ever worked for the Air Force or any company that does much of its business with the aviation industry?

Yes	76-1
No.	2
Don't know.	3
NORC use.	Y

27. (Casually) By the way, had you heard anything about this survey before this interview? Yes 77-1*
No. 2
NORC use. 3

*A. IF YES: What have you heard? (Who was doing the survey? For what purpose?)

78-

28. Now in case the office finds I've left something out, what would be the best time to call you?

Well, I guess that's it. Thanks for all your help.

TO BE COMPLETED BY THE INTERVIEWER AFTER THE INTERVIEW

1. Was the respondent suspicious of the stated purpose of the interview or the interviewer?

Yes () No ()

IF YES, EXPLAIN:

2. Was the respondent always relaxed and willing to answer all questions frankly, or was he sometimes tense, defensive, uncooperative?

Always frank -- Yes () No ()

IF NO, EXPLAIN:

79-

80-3

Interviewer's Signature: _____

Security Classification

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13. ABSTRACT

This appendix contains samples of questionnaires used during the interviews that took place from February to July 1964 in the Oklahoma City, Oklahoma, area. That area was repeatedly exposed to sonic booms generated to simulate overpressure levels that are expected for supersonic transport overflights. The schedule provided for eight sonic booms per day. During the 6-month period, almost 3,000 local residents were interviewed three times to determine the nature and extent of their reactions to the sonic booms.

Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
Bioacoustics Sonic boom Reaction (physiology) Community response Public opinion Noise, impulse type Sounds, supersonic transport						

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